LISTING OF CLAIMS

The following listing of claims will replace all prior versions, and listings of claims in the application:

- (Currently amended) A purified interferon-α polypeptide, comprising a first amino acid sequence consisting of residues 1-75 of interferon-α21a21b; a second amino acid sequence consisting of residues 76-81 of interferon-α2c or residues 76-81 of interferon-α21a21b;
- a third amino acid sequence consisting of the sequence LDKFXTELXQQLND or the sequence LEKFXTELXQQLND, wherein X is any amino acid residue; and a fourth amino acid sequence consisting of residues 96-166 of interferon-α2c; wherein the hybrid interferon-α polypeptide has interferon-α protein biological activity.
- 2. (Previously presented) The purified interferon- α polypeptide according to claim 1, wherein the second amino acid sequence consists of residues 76-81 of interferon- α 2c.
- 3. (Currently amended) The purified interferon- α polypeptide according to claim 1, wherein the second amino acid sequence consists of residues 76-81 of interferon- $\alpha \frac{21a}{21b}$.
- 4. (Previously presented) The purified interferon-α polypeptide according to claim 1, wherein the third amino acid sequence consists of the sequence LDKFXTELXQQLND.
- 5. (Previously presented) The purified interferon-α polypeptide according to claim 1, wherein the third amino acid sequence consists of the sequence LEKFXTELXQQLND.
- 6. (Previously presented) The hybrid interferon polypeptide according to claim 1, wherein the second amino acid sequence consists of residues 76-81 of interferon-α2c and the third amino acid sequence consists of the sequence LEKFXTELXQQLND.

Page 3 of 14

- 7. (Currently amended) The hybrid interferon-α polypeptide according to claim 6, comprising an amino acid sequence with a structure M-N-O-P, wherein M consists of amino acid residues 1-75 of interferon-α21a21b, N consists of amino acid residues 76 to 81 of interferon-α2c, O consists of amino acid residues 82 to 95 of interferon-α21a21b, and P consists of amino acid residues 96 to 166 of interferon-α2c.
- 8. (Previously presented) The hybrid interferon-α polypeptide according to claim 1, wherein the second amino acid sequence consists of residues 76-81 of interferon-α2c and the third amino acid sequence consists of the sequence LDKFXTELXQQLND.
- 9. (Currently amended) The hybrid interferon-α polypeptide according to claim 1, wherein the second amino acid sequence consists of residues wherein the second amino acid sequence consists of residues 76-81 of interferon-α21α21b and the third amino acid sequence consists of the sequence LDKFXTELXQQLND.
- 10. (**Previously presented**) The hybrid interferon-α polypeptide according to claim 1, comprising an amino acid sequence selected from the group consisting of an amino acid sequence as set forth in SEQ ID NOs: 9, 11, 30, 32, 36, 38, 40, and 42.
- 11. (Previously presented) The hybrid interferon-α polypeptide according to claim 10, wherein the sequence is selected from the group consisting of an amino acid sequence as set forth in SEQ ID NOs: 9, 32, 36, and 38.
- 12. (**Previously presented**) The hybrid interferon-α polypeptide according to claim 1, wherein the second amino acid sequence consists of amino acid residues 76-95 of interferon-α2c.
- 13. (Currently amended) The hybrid interferon- α polypeptide according to claim 1, wherein the second amino acid sequence consists of amino acid residues 76-95 of interferon- $\alpha \frac{21a}{21b}$.

Page 4 of 14

- 14. (Currently amended) The hybrid interferon-α polypeptide according to claim 8, wherein the second amino acid sequence consists of residues wherein the second amino acid sequence consists of residues 76-81 of interferon-α21α21b and the third amino acid sequence consists of the sequence LEKFXTELXQQLND.
- 15. (Previously presented) A nucleic acid molecule encoding a polypeptide according to claim 1.
- 16. (**Original**) A recombinant vector comprising the nucleic acid molecule according to claim 15.
- 17. (Original) A cell transformed with the recombinant vector according to claim 16.
 - 18. (Previously presented) A pharmaceutical composition comprising:
 a pharmaceutically acceptable vehicle or carrier; and
 at least one hybrid interferon-α polypeptide according to claim 1.
 - 19-23. (Cancelled).
- 24. (Previously presented) A nucleic acid molecule encoding a polypeptide according to claim 10.
- 25. (Previously presented) A nucleic acid molecule according to claim 24, having a nucleic acid sequence as set forth in SEQ ID NO: 8, 10, 29, 31, 35, 37, 39, or 41.
- 26. (Previously presented) A recombinant vector comprising the nucleic acid molecule according to claim 24.
- 27. (Previously presented) A cell transformed with the recombinant vector according to claim 26.

Page 5 of 14

28. (Previously presented) A pharmaceutical composition comprising: a pharmaceutically acceptable vehicle or carrier; and

at least one hybrid interferon-α polypeptide according to claim 10.